

Release notes for ENDF/B Development n-098_Cf_252
evaluation

ENDF
B-VII.dev

April 26, 2017

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=1000.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.25%

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (total): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (n + Cf252): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (n + Cf252): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 (n + (Cf252_e1 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (6.855206e-09) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 (n + (Cf252_e4 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.620214e-09) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 (n + (Cf252_e5 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.583114e-09) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 (n + (Cf252_e6 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.194190e-09) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (n + (Cf252_e8 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (4.597145e-09) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 18 (n + (Cf252_e9 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.028623e-09) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 19 (n + (Cf252_e10 -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (6.041275e-11) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 20 (n + (Cf252_c -> Cf252 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 21 (Cf253 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 22 (n + Cf252 [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 23 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 24 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 25 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 26 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (152337.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

2. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (152337.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

... plus 10 more instances of this message

3. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

4. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

5. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

6. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

7. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

8. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (1100000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

9. Energy range of data set does not match cross section range
reaction label 11: n + (Cf252_c ->Cf252 + gamma) / Product: Cf252_c / Decay product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

- WARNING: Domain doesn't match the cross section domain: (920699.0 -> 20000000.0) vs (110882.0 -> 20000000.0)
10. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_i / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (1100000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 11. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_j / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 12. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_k / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 13. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_l / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (920699.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 14. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_m / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 15. Energy range of data set does not match cross section range
reaction label 11: $n + (Cf252_c \rightarrow Cf252 + \gamma) / Product: Cf252_c / Decay product: \gamma_n / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (1100000.0 -> 20000000.0) vs (110882.0 -> 20000000.0)

 16. Calculated and tabulated Q values disagree.
reaction label 12: $n[multiplicity:'2'] + Cf251 + \gamma (Error \# 0): Q mismatch$

WARNING: Calculated and tabulated Q-values disagree: -6288163.89175415 eV vs -6171950. eV!

 17. Energy range of data set does not match cross section range
reaction label 12: $n[multiplicity:'2'] + Cf251 + \gamma / Product: \gamma_a / Multiplicity: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

 18. Energy range of data set does not match cross section range
reaction label 12: $n[multiplicity:'2'] + Cf251 + \gamma / Product: \gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error \# 0): Domain mismatch (a)$

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

19. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

20. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

21. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

22. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

23. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

24. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

25. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

26. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

27. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

28. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
29. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
30. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
31. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
32. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
33. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
34. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
35. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
36. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

37. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

38. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

39. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

40. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

41. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

42. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

43. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

45. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

46. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
47. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
48. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
49. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
50. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
51. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
52. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
53. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
54. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
56. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
57. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
58. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
59. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
60. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
61. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
62. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)
63. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

64. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

65. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

66. Energy range of data set does not match cross section range
reaction label 12: n[multiplicity:'2'] + Cf251 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6196640.0 -> 20000000.0)

67. Calculated and tabulated Q values disagree.
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11396657.71307373 eV vs -1.12804e7 eV!

68. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

69. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

70. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

71. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

72. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

73. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

74. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

75. Energy range of data set does not match cross section range
reaction label 13: n[multiplicity:'3'] + Cf250 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11325600.0 -> 20000000.0)

76. Calculated and tabulated Q values disagree.
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -18021803.62124634 eV vs -1.79056e7 eV!

77. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

78. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

79. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

80. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

81. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

82. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

83. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

84. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

85. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

86. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

87. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

88. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

89. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

90. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

91. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

92. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (18500000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

93. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

94. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

95. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

96. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

97. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

98. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

99. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

100. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

102. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

103. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

104. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

105. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

106. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

107. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

108. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

109. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_r / Multi-
plicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

110. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_r / Distri-
bution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

111. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_s / Multi-
plicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

112. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_s / Distri-
bution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

113. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_t / Multi-
plicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

114. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_t / Distribu-
tion: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

115. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_u / Multi-
plicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

116. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_u / Distri-
bution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

117. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_v / Multi-
plicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

118. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

119. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

120. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

121. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

122. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

123. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

124. Energy range of data set does not match cross section range
reaction label 14: n[multiplicity:'4'] + Cf249 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19000000.0 -> 20000000.0) vs (17977200.0 -> 20000000.0)

125. Calculated and tabulated Q values disagree.
reaction label 16: Cf253 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 4688072.439208984 eV vs 4804290. eV!

126. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 13: n + (Cf252_c -> Cf252 + gamma) total gamma multiplicity (Error # 0): summedMultiplicityMismatch

WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 0.11%

127. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 14: n[multiplicity:'2'] + Cf251 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.97%
128. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 15: n[multiplicity:'3'] + Cf250 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.41%
129. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 16: n[multiplicity:'4'] + Cf249 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 93.89%
130. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 235751982978.1469 eV vs 2.201495e8 eV!
131. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 235751982978.1469 eV vs 2.201495e8 eV!
132. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 235751982978.1469 eV vs 2.201495e8 eV!
133. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 235751982978.1469 eV vs 2.201495e8 eV!
134. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 22 (n + Cf252 [angular distribution]): / Form 'eval': / LegendreLValue L=1 vs
1 (Error # 0): Bad evs
- WARNING: 11 negative eigenvalues! Worst case = -1.912672e-04

- njoy2012 Warnings:

1. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

- message from hinit---mt19 has no spectrum
mt18 spectrum will be used.
2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

---message from hinit---mf6, mt 16 does not give recoil za= 98251
one-particle recoil approx. used.

 3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 98250
one-particle recoil approx. used.

 4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 98249
one-particle recoil approx. used.

 5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt 51 does not give recoil za= 98252
one-particle recoil approx. used.

 6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

---message from hinit---mf6, mt 52 does not give recoil za= 98252
one-particle recoil approx. used.

 7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

---message from hinit---mf6, mt 53 does not give recoil za= 98252
one-particle recoil approx. used.

 8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

---message from hinit---mf6, mt 54 does not give recoil za= 98252
one-particle recoil approx. used.

 9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

---message from hinit---mf6, mt 55 does not give recoil za= 98252
one-particle recoil approx. used.

 10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

---message from hinit---mf6, mt 56 does not give recoil za= 98252
one-particle recoil approx. used.

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (10): HEATR/hinit (4)

```

---message from hinit---mf6, mt 57 does not give recoil za= 98252
one-particle recoil approx. used.

```
12. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (11): HEATR/hinit (4)

```

---message from hinit---mf6, mt 58 does not give recoil za= 98252
one-particle recoil approx. used.

```
13. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (12): HEATR/hinit (4)

```

---message from hinit---mf6, mt 59 does not give recoil za= 98252
one-particle recoil approx. used.

```
14. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (13): HEATR/hinit (4)

```

---message from hinit---mf6, mt 60 does not give recoil za= 98252
one-particle recoil approx. used.

```
15. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (14): HEATR/hinit (4)

```

---message from hinit---mf6, mt 91 does not give recoil za= 98252
one-particle recoil approx. used.

```
16. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (15): HEATR/hinit (4)

```

---message from hinit---mf6, mt102 does not give recoil za= 98253
photon momentum recoil used.

```
17. There is a problem with the fission energy release.
heatr...prompt kerma (20): HEATR/nheat (3)

```

---message from nheat---changed q from 2.201495E+08 to 2.064007E+08
for mt 18

```
18. The number of coefficients was too large in a covariance
covr...process covariance data (1): Cov:Too many coeff.

```

---message from matshd--- 120 coefficients > 2
reset and continue

```